

OIL ANALYSIS REPORT

Sample Rating Trend





KEMP QUARRIES / MUSKOGEE SAND [66574] **WL042**

Component

Transmission (Manual)

PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 changed filters)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

The condition of the fluid is acceptable for the time in service.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0087009	PCA0084617	PCA0087101
Sample Date		Client Info		24 Oct 2023	11 Jul 2023	23 May 2023
Machine Age	hrs	Client Info		33553	244227	31670
Oil Age	hrs	Client Info		33553	29950	660
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	18	39	33
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	• •	ASTM D5185m	>25	<1	5	9
	ppm			0		
Lead	ppm	ASTM D5185m	>45		1	<1
Copper	ppm	ASTM D5185m	>225	36	105	66
Tin	ppm	ASTM D5185m	>10	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	<1	<1
Barium	ppm	ASTM D5185m	0	20	0	0
Molybdenum	ppm	ASTM D5185m	0	2	4	4
Manganese	ppm	ASTM D5185m	9	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1	20	34	43
Calcium	ppm	ASTM D5185m	3131	2759	2638	2456
Phosphorus	ppm	ASTM D5185m	1194	973	870	864
Zinc	ppm	ASTM D5185m	1281	1142	1054	1060
Sulfur	ppm	ASTM D5185m	3811	5291	3621	3629
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	7	18	32
Sodium	ppm	ASTM D5185m	7120	3	0	0
Potassium	ppm	ASTM D5185m	>20	1	2	3
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
				NONE	NONE	NONE
Precipitate Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	scalar	*Visual				
Debris Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

Visc @ 40°C

cSt

ASTM D445 88.5

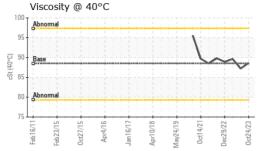
88.6

87.2

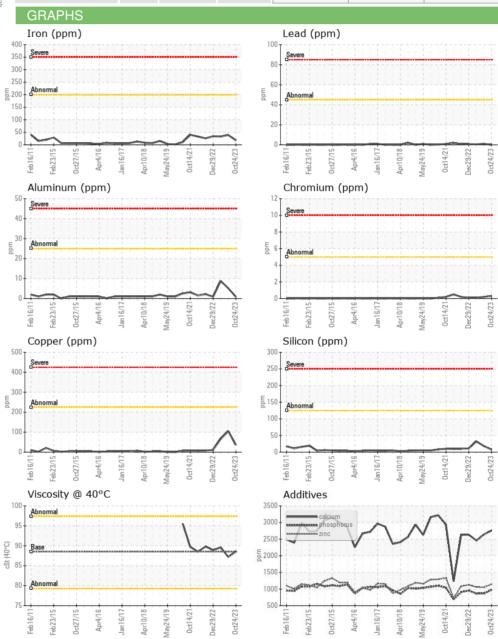
89.6



OIL ANALYSIS REPORT











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0087009 : 05993897 : 10722257

Received Diagnosed

: 30 Oct 2023 : 01 Nov 2023 : Sean Felton Diagnostician

Kemp Quarries - Muskogee Sand

3395 W 50th St N Porter, OK US 74454

Contact: MUSCOGEE NOTIFICATIONS

muskogee@muskogeesand.com T:

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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